

Samoa Solar Rooftop Power Generation System





Overview

Why is Samoa launching a solar power project?

The project is part of Samoa's broader commitment to combat climate change and achieve energy independence. The new solar power project, developed with funding from international development partners including the Asian Development Bank (ADB), is expected to stabilise energy costs and increase energy security.

Does Samoa have a solar farm?

The Asian Development Bank (ADB) and Sun Pacific Energy Ltd (SPEL) have signed a US\$2.8 million (approximately AU\$4.3 million) loan to expand renewable energy generation in Samoa. The financing will upgrade and expand SPEL's Upolu Solar Farm—Samoa's first independent power producer (IPP)—by installing high-efficiency solar panels.

What is Samoa's Energy Initiative?

The initiative will involve the expansion of solar farms, battery storage systems, and energy efficiency programs to support domestic and commercial energy needs. Samoa currently relies heavily on imported diesel for electricity generation, making it vulnerable to fluctuating global oil prices.

How will Samoa's New solar farm work?

The financing will upgrade and expand SPEL's Upolu Solar Farm—Samoa's first independent power producer (IPP)—by installing high-efficiency solar panels. The expansion is expected to deliver 9.6 gigawatt-hours of clean energy annually and cut carbon dioxide emissions by a further 1,944 tonnes.



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Solar Demand Study

Nov 11, 2024 · The following are recommended to support increased uptake of rooftop solar systems in Samoa: Businesses surveyed reported high energy bills and expressed concerns ...

[Samoa Multi-Country Office Solar PV System](#)

Feb 12, 2025 · Aptech Africa is excited to announce the successful installation of a solar photovoltaic (PV) system in Samoa, supporting the country's efforts to transition to clean and ...



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[ADB, Samoa Sign Landmark Agreement for Solar Power ...](#)

Dec 10, 2024 · ADB has signed a transaction advisory services agreement with Samoa's Electric Power Corporation (EPC) to support the development of a solar photovoltaic and battery ...



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Aug 20, 2025 · The Asian Development Bank (ADB) and Sun Pacific Energy Ltd (SPEL) have signed a US\$2.8 million (approximately AU\$4.3 million) loan to expand renewable energy ...





ENERGY PROFILE Samoa

Additional notes: Capacity per capita and public investments SDGs only apply to developing areas. Energy self-sufficiency has been defined as total primary energy production divided by ...



[ADB Approves \\$2.8 Million To Expand Samoa Solar Farm](#)

Aug 25, 2025 · The project aims to boost renewable energy generation as Samoa faces growing electricity demand and power reliability challenges. The funds will help upgrade the Upolu ...

[Solar power backup systems Samoa](#)

Jan 23, 2025 · The Solar for Samoa project set the benchmark for quality solar power projects in the South Pacific. The two sites will provide up to 27% of the network power during peak ...



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[Report Unveils Growth Potential for Rooftop Solar in Samoa](#)

Apia, Samoa - 18 November 2024 - A recent study has shed light on the promising demand for rooftop solar energy in households and businesses across Samoa. The study was conducted ...



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